

Title (en)
1,2-DIOXETANE DERIVATES AND REAGENTS EMPLOYING THEM

Title (de)
1,2-DIOXETAN DERIVATE UND DIESE GEBRAUCHENDE REAGENZIEN

Title (fr)
DÉRIVÉS DE 1,2-DIOXÉTANNES ET LES RÉACTIFS LES UTILISANT

Publication
EP 1342724 A1 20030910 (EN)

Application
EP 03004897 A 20030306

Priority

- JP 2002064040 A 20020308
- JP 2002088380 A 20020327

Abstract (en)

A 1,2-dioxetane derivative of the formula (I): <CHEM> wherein Ar is an aryl group which may have an alkyl group, an aryl group, a halogen atom, an alkoxy group, a carboxyl group, a formyl group, an alkyl ester, an aryl ester, an alkylketone, an arylketone or a hetero ring bonded thereto, X is a substituent capable of labeling an organic compound or a biological molecule, or an ester, Y is a hydrogen atom, an acyl group or a group of the formula -Si(R₄R₅R₆) (wherein each of R₄, R₅ and R₆ which are independent of one another, is an alkyl group or an aryl group), Z is an alkyl group, an aryl group, an oxygen atom, a sulfur atom, a carbonyl group, -(CO)-O-, -O-(CO)-, -NH-, -NH-CO-, -CO-NH-, -OSi(R₇R₈)- (wherein each of R₇ and R₈ which are independent of each other, is an alkyl group or aryl group) or a group of the formula -(R₉R₁₀) SiO- (wherein each of R₉ and R₁₀ which are independent of each other, is an alkyl group or an aryl group), each of R₁ and R₂ is an alkyl group or an aryl group, and R₃ is a spacer.

IPC 1-7
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CPC (source: EP US)
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Citation (search report)

- [A] US 5578253 A 19961126 - SCHAAP ARTHUR P [US], et al
- [A] EP 0779293 A1 19970618 - FUJIREBIO KK [JP]

Cited by
US7968735B2

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DE FR GB IT

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EP 1342724 A1 20030910; **EP 1342724 B1 20160106**; US 2003207329 A1 20031106; US 2004176611 A1 20040909; US 2005153365 A1 20050714; US 6747160 B2 20040608; US 6844453 B2 20050118; US 7115757 B2 20061003

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EP 03004897 A 20030306; US 26904 A 20041201; US 38285303 A 20030307; US 79833804 A 20040312